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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/706,503	11/02/2000	David J. Wetherall	41007.P004	8089

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EXAMINER

WILLETT, STEPHAN F

ART UNIT PAPER NUMBER

2141

DATE MAILED: 06/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 09/706,503	Applicant(s) WETHERALL ET AL.	
	Examiner Stephan F Willett	Art Unit 2141	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.

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- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U. S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1-2, 5-15, 18-28, 31-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Shannon with Patent Number 6,233,618.
3. Regarding claim(s) 1, 14, 27, Shannon teaches a network domain with routers to route traffic in and out, col. 6, lines 17-18, 23 and col. 13, lines 23-26 as “within network device” and “router or gateway to the Internet”. Shannon teaches monitoring network traffic at said router, col. 13, lines 26-28. Shannon teaches determining if sourcing of undesirable traffic occurs at the router, col. 13, lines 34-41 as “screen” and col. 11, lines 1-10. Shannon teaches a processor with memory, col. 5, lines 45-46.
4. Regarding claim(s) 2, 15, 28, Shannon teaches said determination is based on differential characteristics of traffic routed out, col. 6, lines 45-46 as “access control is based on the categories or types of data to be accessed”, col. 8, lines 24-30, 49-51, and based on traffic routed into the network, col. 13, lines 1-22 as “source address field”.
5. Regarding claim(s) 5, 9, 13, 18, 22, 26, 31, 35, 39, Shannon teaches stopping undesirable traffic being sourced, col. 14, lines 29-20.

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6. Regarding claim(s) 6, 10, 19, 23, 32, 36, Shannon teaches a second routing device or network domain through which undesirable traffic is determined, col. 6, lines 1-3.

7. Regarding claim(s) 7-8, 11-12, 20-21, 24-25, 33-34, 37-38, Shannon teaches detecting undesirable traffic between routers and/or domains, col. 6, lines 6-7.

Claim Rejections - 35 USC § 103

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103[©] and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 3-4, 16-17, 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shannon with Patent Number 6,233,618 in view of Trcka et al. with Patent Number 6,453,345.

11. Regarding claim(s) 3, 16, 29, Shannon teaches the system described above. Shannon teaches the invention in the above claim(s) except for explicitly teaching compiling aggregated

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statistics of traffic data. In that Shannon operates to limit data forwarded, the artisan would have looked to the network monitoring arts for details of implementing detailed traffic analysis of monitored data. In that art, Trcka, a related network monitor, teaches "a window of time for enabling the bad packets to be evaluated", col. 6, lines 61-62 in order to provide a more accurate determination. Trcka specifically teaches "provid[ing] a temporary record of the good and bad packet data, respectively), and are used to enable the system to automatically monitor the traffic near real-time'", col. 14, lines 50-53 with "comparison", col. 19, lines 23-30 and "statistics", col. 21, line 26. Statistics relevant to all data sent is taught. Further, Trcka suggests "the system includes various components for automatically analyzing the network traffic in near real-time", col. 8, lines 64-65 which will result from implementing his data analysis. The motivation to incorporate statistics insures that more relevant data is used to make a determination. Thus, it would have been obvious to one of ordinary skill in the art to incorporate the differential statistics as taught in Trcka into the monitor described in the Shannon patent because Shannon operates with grouping data and Trcka suggests that optimization can be obtained with group statistics. Therefore, by the above rational, the above claim(s) are rejected.

12. Regarding claims 4, 17, 30, Trcka teaches aggregating said input and output characteristics, col. 19, lines 25-27 as "evaluat[ing] the effectiveness of the firewall". Thus, the above claim limitations are obvious in view of the combination.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is disclosed in the Notice of References Cited. A close review of the references is

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suggested. A close review of the Cunningham et al. reference with Patent Number 6,219,786 and Krishnan reference with Patent Number 6,366,956 is suggested. The other references cited teach numerous other ways to perform network device content control, thus a close review of them is suggested.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephan Willett whose telephone number is (703) 308-5230. The examiner can normally be reached Monday through Friday from 8:00 AM to 6:00 PM.

15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia, can be reached on (703) 305-4003. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

16. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9605.



Stephan Willett

Patent Examiner

June 2, 2004